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## WPI / Thomson

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 PN - JP52145509 A 19771203 DW197803  
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 XIC - A61K-036/185; A61K-036/60; A61P-035/00  
 AB - Anti-cancer agent contains as effective ingredient a bitter principle of hops of *Humulus lupulus* L. (Moraceae). The anti-cancer effect is conc. in the cone of hops, partic. in the bitter principle of lupulin particles (contg. yeast for beer brewing) which contain mainly vegetable female hormone.  
 Hop cones collected after 35-45 days from flowering are dried in the sand or under hot air at 40-60 degrees C for 5-15 hrs. until the moisture content is 10-20%. The resulting dry hop contains 6-17% moisture, 0.13-0.48% essential oil, 7-25% resin (water soluble resin contg. humulone and lupulin), 7-11% tannin, 10-17% nitrogenic cpd., 10-18% fibrous material, 5-10% ash and yeast. The dry hop is placed in a cloth bag and immersed in pure water in a ceramic pot or pressure pot at a rate of 5-10 g./l. at 60-65 degrees C for 1-3 hrs. and then at 90-100 degrees C for 30-60 secs., during which time the lost amt. of water is supplied little-by-little. The bag taken out of the water is allowed to cool. The resulting hop extract exhibits a bitter taste, shows strong permeability and antiseptic sterilisability to the mucous membrane and skin, promotes metabolism, and improves the circulation of the blood. The extract is effective in treatment of diabetes, hypertension and gastro enteric disorders without any adverse reaction. It is partic. effective against cancers of the stomach, bladder, liver, lung and breast.  
 ICAI- A61K36/60; A61P35/00  
 ICCI- A61K36/185; A61P35/00  
 IW - ANTICANCER AGENT BITTER PRINCIPLE HOP HUMULUS LUPULUS  
 IWW - ANTICANCER AGENT BITTER PRINCIPLE HOP HUMULUS LUPULUS  
 NC - 1  
 NFN - 1  
 OPD - 1976-05-27  
 PAW - (MATS-I) MATSUI T  
 PD - 1977-12-03  
 TI - Anticancer agent - including the bitter principle of hops of *Humulus lupulus*